

FIGURE 1

AGGCCGTGCC	TATCCAGAAA	GTCCAGGATG	ACACCAAAAC	CCTCATCAAG	ACAATTGTCA
V P	I Q K	V Q D	D T K T	L I K	T I V
CCAGGATCAA	TGACATCTCA	CACACGCAGT	CCGTCTCCTC	CAAACAGAGG	GTCACTGGTT
T R I N	D I S	H T Q	S V S S	K Q R	V T G
TGGACTTCAT	CCCTGGGCTC	CACCCTCTCC	TGAGTTTGTC	CAAGATGGAC	CAGACATGG
L D F I	P G L	H P L	L S L S	K M D	Q T L
CGATCTACCA	ACAGATCCTC	ACCAGTCTGC	CTTCCAGAAA	TGTGGTCCAA	ATATCCAATG
A I Y Q	Q I L	T S L	P S R N	V V Q	I S N
ACCTGGAGAA	CCTCCGGGAC	CTTCTCCACC	TGCTGGCCGC	CTCCAAGAGC	TGCCCCTTGC
D L E N	L R D	L L H	L L A A	S K S	C P L
CGCAGGTCAG	GGCCCTGGAG	AGCTTGGAGA	GCTTGGGTGT	CGTCTGGAA	GCCTCCCTCT
P Q V R	A L E	S L E	S L G V	V L E	A S L
ACTCCACCGA	GGTGGTGGCC	CTGAGCCGGC	TGCAGGGGTC	ACTACAGGAC	ATGTTGCGGC
Y S E E	V V A	L S R	L Q G S	L Q D	M L R
AGCTGGACCT	CAGCCCTGAA	TGCAGCGCT			
Q L D L	S P E	C			

FIGURE 2A

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Query:      1 AGGCCGTGCGCTATCCAGAAAAGTCCAGGATGACACCAAAACCCCTCATCAAGACAATTGTCA 60
           | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct:     59 AAGCTGTGCCCCATCCAAAAAGTCCAAGATGACACCAAAACCCCTCATCAAGACAATTGTCA 118

Query:     61 CCAGGATCAATGACATCTCACACACGCAGTCCGCTCTCCTCCAAACAGAGGGTCACTGGTT 120
           | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct:    119 CCAGGATCAATGACATTTACACACGCAGTCAGTCTCCTCCAAACAGAAAGTCACCGGTT 178

Query:    121 TGGACTTCATCCCTGGGCTCCACCCCTCTCCTGAGTTTGTTCCAAGATGGACCAGACATTGG 180
           | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct:    179 TGGACTTCATTCTGGGCTCCACCCCATCCTGACCTTATCCAAGATGGACCAGACACTGG 238

Query:    181 CGATCTACCAACAGATCCTCACCAGTCTGCCTTCCAGAAATGTGGTCCAAATATCCAATG 240
           | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct:    239 CAGTCTACCAACAGATCCTCACCAGTATGCCTTCCAGAAACGTGATCCAAATATCCAACG 298

Query:    241 ACCTGGAGAACCTCCGGGACCTTCTCCACCTGCTGGCCGCCTCCAAGAGCTGCCCCCTTGC 300
           | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct:    299 ACCTGGAGAACCTCCGGGATCTTCTTCACGTGCTGGCCCTTCTCTAAGAGCTGCCACTTGC 358

Query:    301 CGCAGGTCAGGGCCCTGGAGAGCTTGGAGAGCTTGGGTGCTCGTCTGGAAGCCTCCCTCT 360
           | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct:    359 CCTGGGCCAGTGGCCTGGAGACCTTGACAGCCTGGGGGGTGCTCTGGAAGCTTCAGGCT 418

Query:    361 ACTCCACCGAGGTGGTGGCCCTGAGCCGGCTGCAGGGGTCCTACAGGACATGTTGCGGC 420
           | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct:    419 ACTCCACAGAGGTGGTGGCCCTGAGCAGGCTGCAGGGGTCTCTGAGGACATGCTGTGGC 478

Query:    421 AGCTGGACCTCAGCCCTGAATGCAG 445
           | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct:    479 AGCTGGACCTCAGCCCTGGGTGCTG 503

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Query = bovine leptin cDNA
Sbjct = human leptin cDNA

FIGURE 2B

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Query:      1 AGGCCGTGCCTATCCAGAAAGTCCAGGATGACACCAAAACCCCTCATCAAGACAATTGTCA 60
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Sbjct:     59 AAGCAGTGCCTATCCAGAAAGTCCAGGATGACACCAAAACCCCTCATCAAGACCATTGTCA 118

Query:      61 CCAGGATCAATGACATCTCACACAG 86
           |||
Sbjct:     119 CCAGGATCAATGACATTTCACACAG 144

Query:      87 CAGTCCGTCTCCTCCAAACAGAGGGTCACTGGTTGGACTTCATCCCTGGGCTCCACCCT 146
           |||
Sbjct:    1876 CAGTCGGTATCCGCCAAGCAGAGGGTCACTGGCTTGGACTTCATTCTGGGCTTCACCCC 1935

Query:     147 CTCCTGAGTTTGTCCAAGATGGACCAGACATTGGCGATCTACCAACAGATCCTCACCAGT 206
           |||
Sbjct:    1936 ATCTGAGTTTGTCCAAGATGGACCAGACTCTGGCAGTCTATCAACAGGTCTCACCAGC 1995

Query:     207 CTGCCCTCCAGAAATGTGGTCCAAATATCCAATGACCTGGAGAACCTCCGGGACCTTCTC 266
           |||
Sbjct:    1996 CTGCCCTCCCAAAATGTGCTGCAGATAGCCAATGACCTGGAGAAATCTCCGAGACCTCTCTC 2055

Query:     267 CACCTGCTGGCCGCCTCCAAGAGCTGCCCCCTTGCCGCAGGTCAGGGCCCTGGAGAGCTTG 326
           |||
Sbjct:    2056 CATCTGCTGGCCCTCTCCAAGAGCTGCTCCCTGCCTCAGACCAGTGGCCTGCAGAAGCCA 2115

Query:     327 GAGAGCTTGGGTGTCTGTCCTGGAAGCCTCCCTCTACTCCACCGAGGTGGTGGCCCTGAGC 386
           |||
Sbjct:    2116 GAGAGCCTGGATGGCGTCTGGAAGCCTACTCTACTCCACAGAGGTGGTGGCTTTGAGC 2175

Query:     387 CGGCTGCAGGGGTCACTACAGGACATGTTGCGGCAGCTGGACCTCAGCCCTGAATGCAG 445
           |||
Sbjct:    2176 AGGCTGCAGGGCTCTCTGACAGGACATTCTTCAACAGTTGGATGTTAGCCCTGAATGCTG 2234

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Query = bovine leptin cDNA

Sbjct = murine leptin cDNA

FIGURE 3A

				10	20	30	—39
Clconl				VPIQKVQDDTKTLIKTIVTRINDISHTQSVSSKQRV	TGL		
Ob_Hum	MHWGTL	CGFLWL	WPYLFY	VQAVPIQKVQDDTKTLIKTIVTRINDISHTQSVSSKQ	KVTGL		
	10	20	30	40	50	60	
	40	50	60	70	80	90	99
Clconl	DFIPGLHPLLSLSKMDQTLAIYQQILTS	LP	SRNVVQISNDLENLRDLLHLLAASKSCPLP				
Ob_Hum	DFIPGLHPILTSKMDQTLAVYQQILTS	MP	SRNVQISNDLENLRDLLHVLAFSKSCHLP				
	70	80	90	100	110	120	
	100	110	120	130	140		
Clconl	QVRALESLES	LG	VLEASLYSTE	VVALSRLQGS	LQDMLRQLDLSPEC		
Ob_Hum	WASGLETLD	SLGGVLEAS	G	YSTE	VVALSRLQGS	LQDMLRQLDLSPEC	
	130	140	150	160			

Clconl = predicted bovine leptin amino acid sequence
 Ob Hum = human leptin amino acid sequence

FIGURE 3B

				10	20	30	39
Clcon1				VPIQKVQDDTKTKTIKTIVTRINDISHTQSVSSKQRVVTGL			
Ob_Mou	MCWRPLCRFLWLWSYLSYVQAVPIQKVQDDTKTKTIKTIVTRINDISHTQSVSAKQRVVTGL						
	10	20	30	40	50	60	
	40	50	60	70	80	90	99
Clcon1	DFIPGLHPLLSLSKMDQTLAIYQQILTSLPSRNVVQISNDLENLRDLLHLLAASKSCPLP						
Ob_Mou	DFIPGLHPILSLSKMDQTLAVYQQVLTSLPSQNVLQIANDLENLRDLLHLLAFSKSCSLP						
	70	80	90	100	110	120	
	100	110	120	130	140		
Clcon1	QVRALESLESLGVVLEASLYSTEVVVALSRQGSQDMLRQLDLSPEC						
Ob_Mou	QTSGLKQPESLDGVLEASLYSTEVVVALSRQGSQDILQQLDVSPEC						
	130	140	150	160			

Clcon1 = predicted bovine leptin amino acid sequence

Ob Mou = murine leptin amino acid sequence

FIGURE 5A

Query: 1 VPIQKVQDDTKTLIKTIVTRINDISHTQSV 30

Sbjct: 22 VPIQKVQDDTKTLIKTIVTRINDISHTQSV 51

Query = actual bovine leptin amino acid sequence

Sbjct = human leptin amino acid sequence

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FIGURE 5B

Query: 1 VPIQKVQDDTKTLIKTIVTRINDISHTQSV 30

Sbjct: 22 VPIQKVQDDTKTLIKTIVTRINDISHTQSV 51

Query = actual bovine leptin amino acid sequence
Sbjct = murine leptin amino acid sequence

Q
V
P
I
Q
K
V
Q
D
D
T
K
T
L
I
K
T
I
V
T
R
I
N
D
I
S
H
T
Q
S
V

FIG. 6

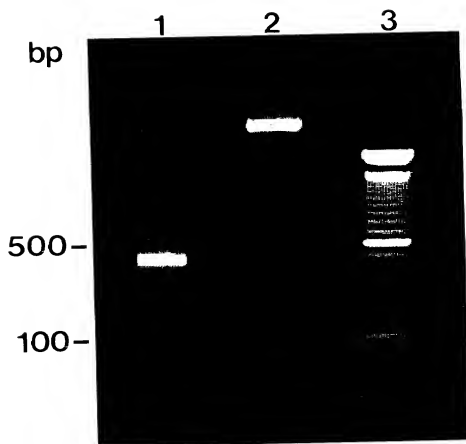


FIG. 7

1 2 3 4 5

28s-

18s-



FIG. 8

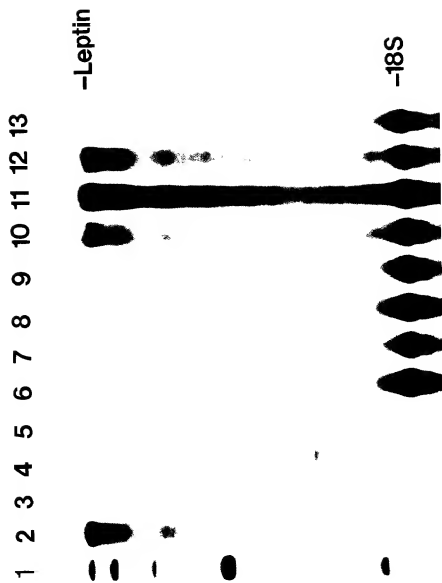


FIG. 9

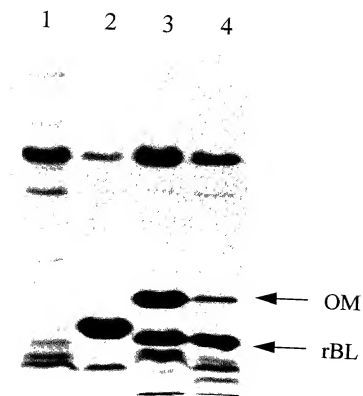


FIG. 10

1	VPIQKVQDDT	KTLIKTIVTR	INDISHTQSV	SSKQRTGLD	40
	FIPGLHPLLS	LSKMDQTLAI	YQQILTSLPS	RNVVQISNDL	80
	ENLRDLLHL	AASKSCPLPQ	VRALESLESL	GVVLEASLYS	120
	TEVVALSRIQ	GSLQDMLRQL	DLSPEC		146

FIG. 11A

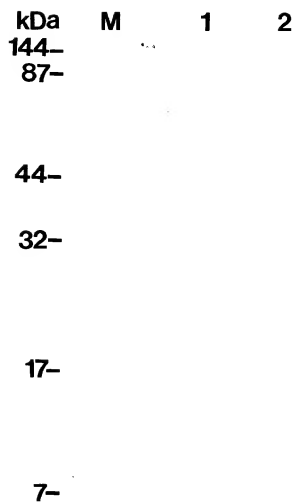


FIG. 11B

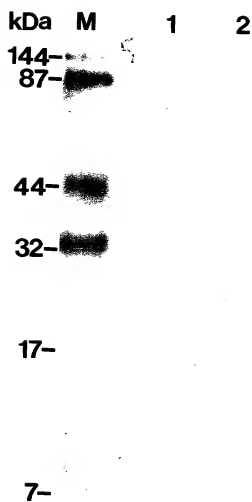


FIG. 12A

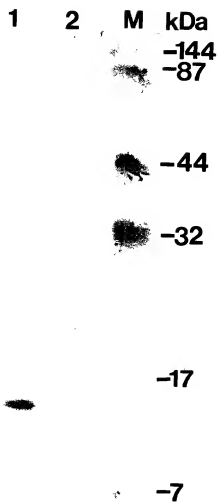


FIG. 12B

